Dr. ZHU Fangming

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Profile

Dr. Zhu Fangming is with NUS-ISS. He currently the programme chief for the Master of Technology in Intelligent Systems. He lectures in the Master of Technology programme in the areas of evolutionary computation, neural networks and data mining. Prior to joining NUS-ISS, he was a postdoctoral fellow in the Department of Electrical and Computer Engineering at NUS. He also worked as a research and development engineer in an IT company before pursuing his PhD studies at NUS. His research interests include evolutionary computation, neural networks, data mining, machine learning, and pattern recognition. Fangming was a recipient of the prestigious Singapore Millennium Foundation (SMF) Postdoctoral Fellowship in 2003. He has also published many papers in leading journals and conferences.

Educational Qualifications/Professional Certifications

- Ph.D., National University of Singapore, 2004
- M.Eng., Shanghai Jiao Tong University, 1997
- B.Eng., Shanghai Jiao Tong University, 1994

Academic and Professional Experience

- Associate, Technology Application Staff (Knowledge Engineering Program), Institute of Systems Science, National University of Singapore, Jan 2009 - Present
- Project Specialist (Lecturer/Consultant, Knowledge Engineering Program), Institute of Systems Science, National University of Singapore, Jul 2005 – Dec 2008

- SMF Postdoctoral Fellow, Department of Electric and Computer Engineering, National University of Singapore, May 2004 – Jul 2005
- SMF Research Officer, Department of Electric and Computer Engineering, National University of Singapore, Aug 2003 – Apr 2004

Membership and Professional Activities

- Independent Reviewer to Engineering Applications of Artificial Intelligence.
- Programme Committee Member to IEEE CEC Congress on Evolutionary Computation 2009; Independent Reviewer to IEEE CEC.
- Independent Reviewer to IEEE Transactions on Neural Networks.

Research Interests

- Evolutionary Computation
- Neural Networks
- Data Mining
- Pattern Recognition
- Machine Learning

Selected Publications

Journal Papers (Refereed)

- Zhu, F. and Guan, S.U. Cooperative co-evolution of GA-based classifiers based on input decomposition, Engineering Applications of Artificial Intelligence, Volume 21, Issue 8, 2008, Pages 1360-1369.
- Guan, S.U. and Zhu, F. An Incremental Approach to Genetic Algorithms Based Classification, IEEE Trans. on Systems, Man and Cybernetics, Part B, 35 (2), 227-239, 2005.
- Guan, S.U. and Zhu, F. Class Decomposition for GA-based Classifier Agents – A Pitt Approach, IEEE Trans. on Systems, Man and Cybernetics, Part B, 34 (1), 381-392, 2004.
- Zhu, F. and Guan, S.U. Feature Selection for Modular GA-based Classification, Applied Soft Computing, Elsevier Science, 4 (4), 381-393, 2004.
- Zhu, F. and Guan, S.U. Ordered Incremental Training with Genetic Algorithms, International Journal of Intelligent Systems, 19 (12), 1239-1256, 2004.
- Guan, S.U., Zhu, F. Ontology Acquisition and Exchange of Evolutionary Product-brokering Agents, Journal of Research and Practice in Information Technology

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Reasoning Systems

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Problem Solving using Pattern Recognition

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